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ECIRS: an English-Chinese cross-language information-retrieval system

- Su Liu

IBM AIX NLS, Austin, TX, USA

This paper appears in: Systems, Man, and Cybernetics, 2001 IEEE

International Conference on

On page(s): 954 - 959 vol.2

7-10 Oct. 2001

Tucson, AZ, USA

2001

Volume: 2

ISBN: 0-7803-7087-2

IEEE Catalog Number: 01CH37236

Number of Pages: 5 vol.3494

References Cited: 22

INSPEC Accession Number: 7162314

Abstract:

In this paper, we describe a World Wide Web-based information retrieval system, called ECIRS (English-Chinese Information Retrieval System). ECIRS provides a cross-language platform for helping people to retrieve Chinese information without inputting a Chinese query. The Web-based client-server architecture allows more users to access ECIRS through the Internet. Distributed Chinese document collections can be easily scaled up with daily growing information. The interactive and hyperlinked user interface can allow people to efficiently choose their favorite documents. In future studies, more evaluation tests and the construction of a larger name recognizer are needed to improve the effectiveness of ECIRS.

Index Terms:

information resources online front-ends Internet natural language
interfaces client-server systems interactive systems hypermedia ECIRS
English-Chinese Information Retrieval System World Wide Web-based
client-server architecture Internet distributed Chinese document
collections scalability information growth interactive hyperlinked user
interface favorite documents name recognizer online searching
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Learning translation models from the Web

Jian-Yun Nie Jiang Chen

Dept. d'Inf. et de Recherche Oper., Montreal Univ., Que., Canada

This paper appears in: Machine Learning and Cybernetics, 2002. Proceedings 2002 International Conference on

Publication Date: 4-5 Nov. 2002

On page(s): 1999 - 2004 vol.4

Volume: 4

ISSN:

Number of Pages: 4 vol.(x+iv+2255)

Inspec Accession Number: 7626955

Abstract:

Query **translation** is the key problem in **cross-language** information retrieval. It can be made by exploiting a large set of parallel texts. We describe a mining system that automatically discovers parallel Web pages on the Web. This system exploits **search engines**, and the common characteristics in the organization of Web pages. Several large text corpora have been constructed using this system. Our experiments show that query **translation** using the obtained corpora can be as good as that using high-quality machine **translation** systems. This study shows the feasibility of automatically building a query **translation** system for all the active languages on the Web.

Index Terms:

Web sites data mining dynamic programming language translation learning (artificial intelligence) probability query processing search engines cross-language information retrieval mining system parallel Web pages parallel texts query translation search translation models

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1 Query term disambiguation for Web cross-language information retrieval 84%
 using a search engine

Akira Maeda , Fatiha Sadat , Masatoshi Yoshikawa , Shunsuke Uemura

Proceedings of the fifth international workshop on on Information retrieval with Asian languages November 2000

With the worldwide growth of the Internet, research on Cross-Language Information Retrieval (CLIR) is being paid much attention. Existing CLIR approaches based on query translation require parallel corpora or comparable corpora for the disambiguation of translated query terms. However, those natural language resources are not readily available. In this paper, we propose a disambiguation method for dictionary-based query translation that is independent of the availability of such scarce langua ...

2 Localization of web content 80%

Daniel Brandon

The Journal of Computing in Small Colleges December 2001

Volume 17 Issue 2

3 Linguistic resource creation for research and technology development: A 77%
 recent experiment

Stephanie Strassel , Mike Maxwell , Christopher Cieri

ACM Transactions on Asian Language Information Processing (TALIP) June 2003

Volume 2 Issue 2

Advances in statistical machine learning encourage language-independent approaches to linguistic technology development. Experiments in "porting" technologies to handle new natural languages have revealed a great potential for multilingual computing, but also a frustrating lack of linguistic resources for most languages. Recent efforts to address the lack of available resources have focused either on intensive resource development for a small number of languages or development of technologies fo ...

4 Interacting with the WWW: Looking for convenient alternatives to forms 77%
 for querying remote databases on the Web: a new iconic interface for progressive queries

Fabrizio Capobianco , Mauro Mosconi , Lorenzo Pagnin

Proceedings of the workshop on Advanced visual interfaces May 1996

The enormous popularity of the World Wide Web has made putting public access databases on the Web practically mandatory. Forms embedded within the Web clients (e.g. Netscape) are therefore emerging as the most common interfaces in database querying. Should this solution be considered completely satisfactory? We highlight some of the important limits we experienced with forms and we propose a convenient alternative solution, based on direct manipulation of icons. The system we have developed is ea ...

5 Haircut: a system for multilingual text retrieval in java 77%
 Paul McNamee , James Mayfield , Christine Piatko
The Journal of Computing in Small Colleges February 2002
Volume 17 Issue 3

6 Reading of electronic documents: the usability of linear, fisheye, and 77%
 overview+detail interfaces
Kasper Hornbæk , Erik Frøkjær
Proceedings of the SIGCHI conference on Human factors in computing systems
March 2001

Reading of electronic documents is becoming increasingly important as more information is disseminated electronically. We present an experiment that compares the usability of a linear, a fisheye, and an overview+detail interface for electronic documents. Using these interfaces, 20 subjects wrote essays and answered questions about scientific documents. Essays written using the overview+detail interface received higher grades, while subjects using the fisheye interface read documents faster. ...

7 Arabia online: answering the call of the holy land 77%
 R. W. Burniske
Ubiquity April 2000
Volume 1 Issue 9

8 InfoSleuth: agent-based semantic integration of information in open and 77%
 dynamic environments
R. J. Bayardo , W. Bohrer , R. Brice , A. Cichocki , J. Fowler , A. Helal , V. Kashyap , T. Ksiezyk , G. Martin , M. Nodine , M. Rashid , M. Rusinkiewicz , R. Shea , C. Unnikrishnan , A. Unruh , D. Woelk
ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data June 1997
Volume 26 Issue 2

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

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